

PROJECT DESCRIPTION

I. GENERAL

This project involves the reconstruction of an existing intersection control beacon at the intersection of MD 175 and Oceano Avenue in Howard County, Maryland. MD 175 is considered to run in an east/west direction.

II. INTERSECTION OPERATION

The intersection is to operate in a flashing operation. The MD 175 through movements will flash yellow and the new entrance to Jessup Park will flash red.

EQUIPMENT LIST

A. Approved S.H.A. equipment to be purchased by the Developer and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
1	EA	818	27 ft. steel mast arm pole with a 70 ft. mast arm [Note: four 2 in. x 90 in. anchor bolts].
1	EA	816	S.H.A. Pole mounted flasher cabinet/controller.
6	EA	814	12 in., black faced, one-way, one section adjustable traffic signal head with mast arm mounting hardware and tunnel visor.
1	EA	813	16 in. x Var. D-3(D) (Dual Face) sign with mast arm mounting hardware.
1	EA	813	30 in. x 36 in. R 3-5(L) sign with mast arm mounting hardware.
2	EA	813	16 in. x Var. D-3(D) sign for ground mounting.
2	EA	813	36 in. x 36 in. W 2-1 sign for ground mounting.
1	EA	813	36 in. x 36 in. R 1-1 sign for ground mounting.
1	EA	806	20 ft. luminaire arm.
1	EA	806	250 W H.P.S. lamp and luminaire.

B. Equipment to be furnished and/or installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
1	CY	205	Test pit excavation.
1	EA	811	Handhole.
40	LF	810	2-conductor electrical tray cable (No. 12 A.W.G.).
235	LF	810	3-conductor electrical cable (No. 14 A.W.G.).
10	LF	810	3-wire (No. 4 A.W.G.) electrical cable.
20	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
5	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
4.65	CY	801	Concrete foundation for traffic signal equipment.
1	EA	804	Ground rod - 3/4 in. diameter x 10 ft. length.
1	EA	807	Control and distribution equipment (120/240 V, one phase, three wire system) for a type P-4 overhead electrical service.
60	LF	556	5 in. wide white pavement marking - paint.
300	LF	556	5 in. wide yellow pavement marking - paint.
15	LF	556	24 in. wide HAPPTM - white for stop line.
65	LF	812	4 in. x 6 in. wood sign support.
180	LF	---	Remove existing pavement markings.
1	EA	---	Remove existing ground mounted sign.
Lump Sum	LS	---	Remove existing traffic signal equipment.
Lump Sum	LS	---	As-Built on CADD

CONTACT LIST

The contact persons for District #7 are as follows:

Mr. Robert L. Fisher
District Engineer
301-624-8101

Mr. John Concannon
Assistant District Engineer - Traffic
301-624-8101

Mr. Jim Buckalew
Assistant District Engineer - Utility
301-624-8201

Mr. Dave Coyne
Assistant District Engineer - Maintenance
301-624-8101

Mr. Richard L. Daff
Chief, Traffic Operations Division
410-787-7630

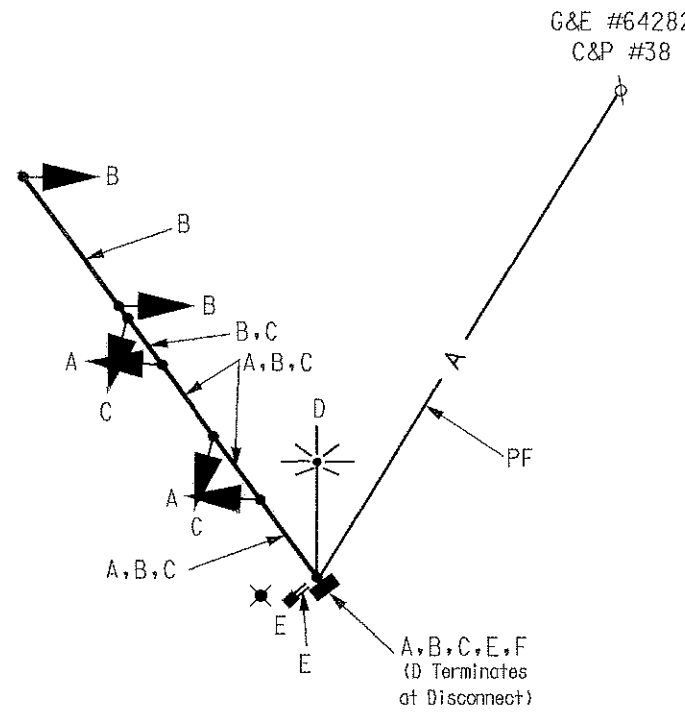
The Power Company Representative is:
Baltimore Gas and Electric Company
Mrs. D. Butler
7317 Parkway Drive South
Hanover, Maryland 21076
410-859-9030

Phase Chart

1 2 3 4 5 6
Y Y Y Y R R

Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	
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Wiring Diagram



A } 3-Conductor Electrical
B } Cable (No. 14 A.W.G.)
C }

D — 2-Conductor Tray Cable
(No. 12 A.W.G.)

E — Bare Copper Ground
Wire (No. 6 A.W.G.)

F — 3-Wire (No. 4 A.W.G.) for
Traffic Signal Electrical Service

X — Proposed Grounding Rod

PF — Proposed Overhead Electrical
Service By BG&E.



APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

(Intersection Control Beacon)

MD 175 at Oceano Avenue/Entrance to Jessup Park

DRAWN BY: J. Storck
CHECKED BY:
SCALE: N/A
DATE: July 7, 2000

F.A.P. NO. N/A
S.H.A. NO. BW996M82
COUNTY: Howard
LOG MILE: 13017500.52

TS NO. 4001
T.I.M.S. NO. D948

SHEET NO.

2 OF 2

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